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4, 7TH MAIN MALLESWARAM, BANGALORE -3

CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-07-04-01** **Date: 05-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-17
Sample ID No	:	2017-07-04-01-01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	04-07-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	552	678	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.615	572	690	19.0%	Satisfactory	Satisfactory

Note:
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Prepared By:
Harshitha

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Quality Manager

End of Report

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CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2017-07-04-01 **Date: 08-07-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.

Agency : Technical Manager (west), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/88/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-07-17

Sample ID No : 2017-07-04-01-02

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 04/07/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.43	1.416	4478	83.9	18.7	17.4	21.8
2	Cover Slab-2	75.47	100.47	1.322	4473	84.3	18.8	17.5	21.9
3	Cover Slab-3	75.44	100.45	1.378	4469	83.5	18.7	17.4	21.7

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-12-03

Date: 14/07/2017

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.

Agency : Technical Manager (west), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/88/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-07-17

Sample ID No : 2017-07-12-03-01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/07/2017	14/07/2017	150.18 X 150.16 X 150.22	22551	8.321	412.7	18.3	18.4
2	Drain Concrete	M20	07/07/2017	14/07/2017	150.18 X 150.22 X 150.19	22560	8.332	410.6	18.2	
3	Drain Concrete	M20	07/07/2017	14/07/2017	150.21 X 150.17 X 150.13	22557	8.310	421.8	18.7	

Note:

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2017-07-10-01	**Date: 12-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.	
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-07-17	
Sample ID No	:	2017-07-10-01-01	
Type of Mix	:	GSB (Granular Sub Base)	
Date of test	:	10-07-17	
Oven Dry Weight	:	10300	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.67	90.33	80-100
26.5	1786	2782	27.01	72.99	55-90
9.5	1292	4074	39.55	60.45	35-65
4.75	1530	5604	54.41	45.59	25-55
2.36	1764	7368	71.53	28.47	20-40
0.425	1706	9074	88.10	11.90	10-25
0.075	896	9970	96.80	3.20	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.53%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 06.07.2017

Lab ID	:	CP-2017-07-04-01
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-17
Sample ID No	:	2017-07-04-01-03
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	02/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	16.8	21.0
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

Note:
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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-07-14-01** **Date: 16-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-07-17
Sample ID No	:	2017-07-14-01-01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	14-07-17
Oven Dry Weight	:	11200 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	376	376	3.4	96.6	95-100
22.4	2263	2639	23.6	76.4	60-80
11.2	2226	4865	43.4	56.6	40-60
4.75	2262	7127	63.6	36.4	25-40
2.36	1659	8786	78.4	21.6	15-30
0.6	668	9454	84.4	15.6	8-22
0.075	1354	10808	96.5	3.5	0-5

Note:-

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-07-14-01** **Date: 16-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-07-17
Sample ID No	:	2017-07-14-01-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	14-07-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	14.6%	
Combined Flakiness and Elongation Index for WMM	28.5%	

Note:-
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-07-21-01**
Customer	:	**Date: 23-07-17**
Address	:	Asisstant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.
Customer Reference	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Source of Sample	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Sample Condition	:	Sample supplied by Agency
Date of Receipt	:	Satisfactory
Sample ID No	:	21-07-17
Type of Mix	:	2017-07-21-01-01
Date of test	:	BC-Plant (Bituminous Concrete)
Oven Dry Weight	:	21-07-17
		5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-07-21-01** **Date: 24-07-17**
Customer	:	Asisstant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-07-17
Sample ID No	:	2017-07-21-01-01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	21-07-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	99.0	Minimum Retained Coating 95%
2	99.5	0.5		
3	98.5	1.5		

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-07-14-01** **Date: 16-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-07-17
Sample ID No	:	2017-07-14-01-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	14-07-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	14.6%	
Combined Flakiness and Elongation Index for WMM	28.5%	

Note:-
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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-07-17-01** **Date: 19-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-17
Sample ID No	:	2017-07-17-01-01
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of test	:	17-07-17
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	392	392	7.8	92.2	90-100
19	843	1235	24.7	75.3	71-95
13.2	678	1913	38.3	61.7	56-80
4.75	1160	3073	61.5	38.5	38-54
2.36	470	3543	70.9	29.1	28-42
0.3	914	4457	89.1	10.9	7-21
0.075	242	4699	94.0	6.0	2-8
PAN	301	5000	0.0	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2017-07-17-01	**Date: 20-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.	
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	17-07-17	
Sample ID No	:	2017-07-17-01-01	
Type of Mix	:	DBM(Dense Bitumnous Macadam)	
Date of test	:	17-07-17	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.0	3.0	98.5	Minimum Retained Coating 95%
2	99.5	0.5		
3	99.0	1.0		

Note:
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-07-17-01** **Date: 20-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-17
Sample ID No	:	2017-07-17-01-01
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of test	:	17-07-17

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

Note:-
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Prepared By:
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FOR CIVIL Pro.
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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2017-07-17-01** **Date: 20-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-17
Sample ID No	:	2017-07-17-01-01
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	17-07-17

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	15.4	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	13.2		
Strength	Aggregate Impact Value	24.5	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.66	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-03-03** **Date: 06-07-17**

Sample ID No : 2017-07-03-03-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	22.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-07-03-03** **Date: 06-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-03-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-07-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	144	228	22.8	77.2	60-95	75-100	85-100	95-100
4	1.18 mm	159	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	176	563	56.3	43.7	15-34	35-59	60-79	80-100
6	300 micron	188	751	75.1	24.9	5-20	8-30	12-40	15-50
7	150 micron	152	903	90.3	9.7	0-10	0-10	0-10	0-15
8	Pan	97	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-03-03** **Date: 06-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-03-02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	279	279	1.9	98.1	90-100
3	20 mm	5334	5613	37.4	62.6	30-70
4	10 mm	4590	10203	68.0	32.0	10-35
5	4.75 mm	4350	14553	97.0	3.0	0-5
6	Pan	447	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-03-03** **Date: 06-07-17**

Sample ID No : 2017-07-03-03-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.56	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.22	–

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Prepared by
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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-07-03-03 **Date: 04-07-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.

Agency : Technical Manager (west), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/88/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-17

Sample ID No : 2017-07-03-03/01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 03-07-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.5	–
2	Finess by Air permeablity method (m^2/kg, Min)	269.5	225m^2/kg, Min
3	Density (gm/cc)	3.23	–
4	Standard Consistency (%)*	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-07-03-03** **Date: 31-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/88/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-03/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-07-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	30.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	40.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2017-07-28-01** **Date: 30-07-17**

Customer : Asisstant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Asphalting and Improvements to roads at MVS Bakery road, Bhuvan college road & surrounding areas in ward No:01 of Yelahanka sub division.

Agency : Technical Manager (west), KRIDL, BBMP, Bangalore.

Customer Reference : BBMP/EE(YNK.D)/W.O/88/2017-18

Source of Sample : Sample supplied by Agency

Date of Receipt : 28-07-17

Sample ID No : 2017-07-28-01-01

Type of Mix : BC (Bituminous Concrete)

Date of test : 28-07-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	6.00
4	Average percentage	%	5.8	

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Lab ID : CP-RW-2017-07-28-01

Sample ID : 2017-07-28-01-01

Date: 30-07-17

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	90-100
9.5	65	67	14.2	85.8	70-88
4.75	132	199	42.2	57.8	53-71
2.36	57	256	54.2	45.8	42-58
1.18	29	285	60.4	39.6	34-48
0.6	11	296	62.7	37.3	26-38
0.3	45	341	72.2	27.8	18-28
0.15	43	384	81.4	18.6	12-20
0.075	47	431	91.3	8.7	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	90-100
9.5	67	69	14.7	85.3	70-88
4.75	141	210	44.7	55.3	53-71
2.36	52	262	55.7	44.3	42-58
1.18	31	293	62.3	37.7	34-48
0.6	11	304	64.7	35.3	26-38
0.3	39	343	73.0	27.0	18-28
0.15	45	388	82.6	17.4	12-20
0.075	47	435	92.6	7.4	4-10

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Lab ID

Sample ID No : CP-RW-2017-07-26-01
: 2017-07-26-01-01

Date: 27-07-17

Weight of Sample(gm) : 474

AFTER EXTRACTION(Trail-1)

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	2	2	0.42	99.6	90-100
19	32	34	7.17	92.8	71-95
13.2	142	176	37.13	62.9	56-80
4.75	64	240	50.63	49.4	38-54
2.36	84	324	68.35	31.6	28-42
0.3	110	434	91.56	8.4	7-21
0.075	23	457	96.41	3.6	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	3	3	0.63	99.4	90-100
19	34	37	7.74	92.3	71-95
13.2	137	174	36.40	63.6	56-80
4.75	69	243	50.84	49.2	38-54
2.36	80	323	67.57	32.4	28-42
0.3	105	428	89.54	10.5	7-21
0.075	27	455	95.19	4.8	2-8

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